

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An apparatus for capturing ~~[[a]]~~ digital ~~image~~ images from a film-based camera having a chamber to receive a film cartridge and a take-up spool to advance the film after each shot, comprising:

a cartridge shaped to fit in the camera film chamber, the cartridge ~~including~~ comprising a processor, a storage unit coupled to the processor, and an input output unit coupled to the processor; and

a flexible strip having one end coupled to the cartridge and the other end ~~adapted~~ to be wound on the camera take-up spool, the flexible strip ~~containing one or more~~ having a plurality of imaging arrays deposited thereon, each of which to capture one of the digital ~~image~~ images, each of the imaging arrays ~~communicating to communicate~~ with the processor.

Claim 2 (original): The apparatus of claim 1, wherein the strip is made from plastic.

Claim 3 (original): The apparatus of claim 1, wherein the strip is made from polyethylene terephthalate (PET).

Claim 4 (original): The apparatus of claim 1, wherein the strip is made from a roll-to-roll process.

Claim 5 (currently amended): The apparatus of claim 1, further comprising a shutter opening sensor ~~positioned on the strip~~ affiliated with each of the plurality of imaging arrays.

Claim 6 (currently amended): The apparatus of claim 1, wherein the storage unit ~~stores~~ to store parameter data associated with each digital image.

Claim 7 (original): The apparatus of claim 6, wherein the parameter data includes print format, lighting condition, subject distance, time of exposure, or date of exposure.

Claim 8 (currently amended): The apparatus of claim 6, wherein the parameter data is to be communicated automatically to a photographic finisher ~~finishers~~ finisher for utilization of ~~who utilize~~ the parameter data to improve print quality.

Claim 9 (original): The apparatus of claim 6, further comprising a compression engine coupled to the processor to compress image data or video data.

Claim 10 (original): The apparatus of claim 9, wherein the compression engine includes JPEG or MPEG.

Claim 11 (original): The apparatus of claim 1, wherein the input output unit includes a serial port, a Universal Serial Bus (USB) port, a PCMCIA port, an infrared port, or a wireless port.

Claim 12 (original): The apparatus of claim 1, wherein the input output unit is a Bluetooth port.

Claim 13 (currently amended): The apparatus of claim 1, wherein the camera has a rewinder motor to automatically advance or retract the flexible strip.

Claim 14 (currently amended): The apparatus of claim 13, further comprising a tension generator ~~driving to drive~~ a spool in the cartridge and controlled by the processor, the tension generator ~~retarding to retard~~ spool rotation to simulate end of film to the camera.

Claim 15 (currently amended): A method for taking a digital image from a film-based camera having a shutter, a chamber to receive a film cartridge and a take-up spool to advance the film after each shot, the method comprising:

mounting a cartridge in the camera film chamber, the cartridge storing a flexible strip ~~containing one or more~~ comprising a plurality of imaging arrays deposited thereon;

~~winding~~ winding one end of the flexible strip on the camera take-up spool; and

upon detecting a shutter opening, capturing the digital image and storing the captured image.

Claim 16 (currently amended): The method of claim 15, further comprising advancing the flexible strip to position the next imaging array for the next image.

Claim 17 (original): The method of claim 15, further comprising sending the digital image to a remote processor through a serial port, a Universal Serial Bus (USB) port, a PCMCIA port, an infrared port, or a wireless port.

Claims 18-20 (cancel)

Claim 21 (new): The method of claim 15, further comprising controlling an imaging array shutter separately from a mechanical shutter of the film-based camera.

Claim 22 (new): The method of claim 16, further comprising rewinding the flexible strip into the cartridge and then saving the stored captured images in a memory of the cartridge.

Claim 23 (new): The method of claim 15, further comprising wirelessly transmitting the captured image via a first communication channel and a second communication channel.

Claim 24 (new): The method of claim 15, further comprising transmitting the captured image to an external memory coupled to the film-based camera.

Claim 25 (new): The apparatus of claim 1, wherein the processor, the storage unit and the input output unit are embedded in a single integrated circuit.

Claim 26 (new): The apparatus of claim 1, wherein each of the plurality of imaging arrays comprises an imaging layer, a conversion layer, and a memory layer.

Claim 27 (new): An apparatus comprising:

a cartridge for insertion into a camera, the cartridge comprising:

a core portion including a processor and a memory;

a spool; and

a strip wound around the spool, the strip including a plurality of imaging arrays, each to capture a digital image.

Claim 28 (new): The apparatus of claim 27, wherein the strip to be wound onto a take-up spool of the camera.

Claim 29 (new): The apparatus of claim 27, further comprising a battery within the cartridge.

Claim 30 (new): The apparatus of claim 27, wherein the processor and the memory are embedded on a single integrated circuit.

Claim 31 (new): The apparatus of claim 27, wherein the strip further comprises a bus to communicate the digital image of each of the plurality of imaging arrays to the core portion.

Claim 32 (new): The apparatus of claim 27, further comprising a wireless communicator coupled to the processor.

Claim 33 (new): The apparatus of claim 32, wherein the wireless communicator and the processor reside on a single integrated circuit.

Claim 34 (new): The apparatus of claim 27, wherein each of the plurality of imaging arrays comprises an imaging layer, a conversion layer, and a memory layer.